

VDP-8410 SPECIFICATIONS

VIDEO

INPUT:
Composite SMPTE 170M, 1V p-p

CONNECTOR:
BNC, 75Ω female (internally terminated)

INPUT NOISE TOLERANCE:
Stable lock to inputs with >15 dB S/N
(Peak sync to RMS wideband white noise)

GENLOCK:
Genlock or internal reference.
Loop through SMPTE 170M input requires a blackburst video signal of 40 units ±10 units of sync and 40 units ±10 units of burst

RETURN LOSS:
≥45 dB to 5 MHz

STANDBY VIDEO:
Standby video input may be selected via DIP switch. Upon loss or degradation of the video input, relays will connect the standby video input directly to Output #1. The standby video input must be synchronous to the reference input video signal.

OUTPUT:
Two video outputs with common front panel adjustment
Output #1 connected to video input in bypass mode or power off condition.
Output #2 processed signal in both normal and bypass modes, inactive in power off condition.

CONNECTORS:
BNC, 75Ω female

HUM REJECTION:
-40 dB maximum

DIFFERENTIAL GAIN:
≤1.5%

DIFFERENTIAL PHASE:
≤1.0°

FREQUENCY RESPONSE:
50 kHz to 4.5 MHz ±0.15 dB

SIGNAL-TO-NOISE RATIO:
>60 dB typical

INPUT/OUTPUT CROSSTALK:
-54 dB

SIGNAL PROCESSING:
Composite 10 bits @ 8xfsc sampling, 4xfsc processing

SYNCHRONIZING RANGE:
4 fields

FREEZE CAPABILITIES

STORE:
Individual selection for storing Frame A, Frame B, or Full Color Frame (Frames A & B). Two independent frames may be stored at one time. Unit will continue to frame synchronize when one frame is stored.

DISPLAY:
Individual selection for displaying Fields 1-4, Frames A or B, or Full Four Field

CONTROLS

PROC AMP CONTROLS:
Gain: 50% to 120%
Pedestal: 7.5 IRE ±5 IRE
Chroma Gain: ±3 dB
Chroma Phase: >360°
Proc Amp controls are active in all live and freeze modes.

MISCELLANEOUS CONTROLS:
Genlock Horizontal Phase: ±1.5 μs
Genlock Subcarrier Phase: >360°
Horizontal Picture Position: ±1.5 μs
Vertical Picture Position: ±7 lines

REAR PANEL DIP SWITCH SETTINGS

TWO FIELD MODE:
Synchronize to odd or even field.

FADE:
Selects fade to black upon loss or degradation of the video input.

CONTINUOUS PROCESSING:
Forces continuous processing regardless of input signal quality.

STANDBY:
In Standby mode, output #1 switches to the standby video input upon loss or degradation of the video input.

OUTPUT VERTICAL BLANKING:
Permits selection of where vertical blanking ends. Can be adjusted to remove VITS. Adjustment range: line 10-25. (Screwdriver adjustment)

INTERFACES

RS-232 CONTROL:
PC or dumb terminal commands field/frames stored and displayed. Proc amp control is not provided.

CONNECTOR:
9 pin D, female

AUDIO STEERING SIGNAL:
Provides TTL level output signal to control an audio synchronizer, within a resolution of 2 lines.

CONNECTOR:
BNC, High impedance female

POWER REQUIREMENTS

POWER INPUT:
90 - 264 VAC, 50/60 Hz

POWER CONSUMPTION:
40 VA typical

MECHANICAL

DIMENSIONS:
Height: 1.75" (4.5 cm)
Width: 19.0" (48.3 cm)
Depth: 15.5" (39.4 cm)

WEIGHT: 12.75 lb (32.4 kg)

ENVIRONMENTAL

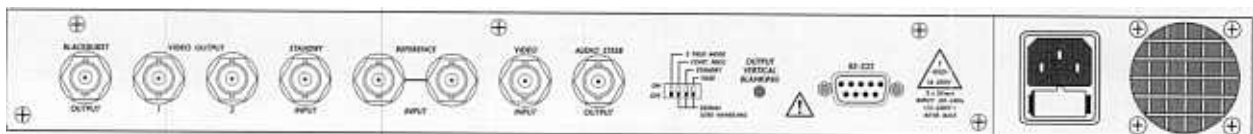
OPERATING TEMPERATURE:
0° to 50°C

STORAGE TEMPERATURE:
-50° to 85°C

HUMIDITY:
0 - 90% (non-condensing)

STANDARD ACCESSORIES

Instruction/Service Manual



VDP-8410 REAR PANEL

SYNC & TIMING